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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,938	09/29/2003	Gabriel E. Montenegro	SUN-P9119-SPL	5178
57960 7590 09/04/2007 SUN MICROSYSTEMS INC. C/O PARK, VAUGHAN & FLEMING LLP 2820 FIFTH STREET DAVIS, CA 95618-7759			EXAMINER LASHLEY, LAUREL L	
			ART UNIT 2132	PAPER NUMBER
			MAIL DATE 09/04/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/674,938

Applicant(s)

MONTENEGRO ET AL.

Examiner

Laurel Lashley

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 July 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's amendments to the claims and specification filed 07/02/07 have been accepted and entered. Where otherwise noted, Applicant has dutifully overcome the claim objection and rejections and therefore they are withdrawn. The claim amendments however have introduced some deficiencies.

### ***Claim Objection***

2. Applicant's amendments to the claims have been entered however each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdraw-currently amended). Applicant is required to file a complete set of claims with appropriate identifiers to overcome the objection set forth in this Office action.

### ***Drawings***

3. The drawings were received on 07/02/07. These drawings are acceptable.

### ***Response to Arguments***

4. Applicant's arguments filed 07/02/07 have been fully considered but they are not persuasive. It is Applicant's assertion that Huitema suffers from the same drawback of having limited space available for the security value as prior authentication solutions. The Examiner respectfully disagrees. Huitema discloses support for 62-bits or more and a digital fingerprint (see [0023]-[0024], [0027] and Table 1) which the Examiner believes to be equivalent the security value as required by applicant's claimed invention.

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It is also Applicant's assertion that there is nothing within Huitema that discloses dividing cryptographic data into multiple pieces and encapsulating the pieces of cryptographic data within multiple fields associated with different network layers of a protocol stack. Again, the Examiner respectfully disagrees. Huitema discloses a portion of a network address (network layer) including a digital fingerprint (application layer) (see 0023). As such the Examiner notes that the specifically formatted address includes portions of a network address and a digital fingerprint which satisfies Applicant's claim limitation. It is further noted that since Huitema discloses a network address being configured with a digital fingerprint, the reference discloses multiple data fields associated with different network layers.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1 – 8, 11 – 18, 20 – 28, and 31 - 36 are rejected under 35 U.S.C. 102(e) as being anticipated by Huitema in US Patent Application Publication hereinafter ( US PGPub '683).

For claim 1 and similar claims 11 and 21, US PGPub '683 discloses:

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A method for communicating cryptographic data through multiple network layers, comprising:

receiving the cryptographic data at a node;

dividing the cryptographic data into multiple pieces; and

encapsulating different pieces of the cryptographic data in fields associated with different network layers of a protocol stack in a data packet (see [0023] – [0024], [0027]), wherein the cryptographic data is larger than a single field (see Figure 5a, 5b and Table 1), and wherein the cryptographic data is encapsulated within multiple fields associated with different network layers of the protocol stack (see [0023]).

For claim 2 and similar claims 12 and 22, US PGPub '683 discloses wherein receiving the cryptographic data involves performing at least one non-reversible function on a piece of input data to produce the cryptographic data. (see [0005] and [0034]: hash function...)

For claim 3 and similar claims 13 and 23, US PGPub '683 discloses the method of claim 2, wherein the input data includes a public key associated with the node. (see [0017]: public key...)

For claim 4 and similar claims 14 and 24, US PGPub '683 discloses wherein the input data includes a static identifier associated with the node. (see [0034]: modifier...)

For claim 5 and similar claims 15 and 25, US PGPub '683 discloses wherein an IPv6 address field of the data packet is comprised of a 64-bit prefix followed by the most-significant 64 bits of the output of the non-reversible function, and wherein a universal/local bit and an individual/group bit of the IPv6 address are both set to "0". (see [0028] and Figure 4)

For claim 6 and similar claims 16 and 26, US PGPub '683 discloses wherein a SIP Call-ID field of the data packet is comprised of a local-id and a host address, wherein the local-id is comprised of the least-significant 128 bits of the output of the non-reversible function; and wherein the host address is comprised of the IPv6 address. (see [0025] and Figure 8)

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For claim 7 and similar claims 17 and 27, US PGPub '683 discloses wherein an SSH public-key fingerprint field of the data packet is comprised of the least-significant 128 bits of the output of the non-reversible function. (see [0023],[0037] and Figure 4)

For claim 8 and similar claims 18 and 28, US PGPub '683 discloses wherein a MAC address field of the data packet is comprised of the least-significant 64 bits of the output of the non-reversible function. (see [0023] and Figure 4)

For claim 31 and similar claims 33 and 35, US PGPub '683 discloses:

A method for verifying a data packet containing cryptographic data, comprising:

receiving the data packet;

extracting pieces of cryptographic data from fields associated with different network layers within the data packet; and

verifying that each piece of extracted cryptographic data matches with a corresponding portion of a piece of previously obtained cryptographic data (see [0023] – [0024], [0033]).

For claim 32 and similar claims 34 and 36, US PGPub '683 discloses wherein the previously obtained cryptographic data is obtained through a process that involves performing at least one non-reversible function on a piece of input data to produce the cryptographic data. (see [0005],[0034] and [0037])

#### ***Official Notice***

6. For claim 9 and similar claims 19 and 29, US PGPub '683 discloses an IPv6 data packet comprising the least-significant 128 bits of the output of the non-reversible function (see [0006] and [0023]) but does not expressly teach such for a JXTA Peer-ID field of the data packet.

However the Examiner takes Official Notice that IPv6 packets may comprise numerous optional headers.

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It would be obvious to one of ordinary skill in the art at the time the invention was made to modify the IPv6 packet of Huitema such that it would comprise a JXTA Peer-ID field since the Examiner takes Official Notice that optional headers are available for use in an IPv6 packet.

For claim 10 and similar claims 20 and 30, US PGPub '683 discloses an IPv6 data packet comprising the least-significant 128 bits of the output of the non-reversible function (see [0006] and [0023]) but does not expressly teach such for a JXTA Group-ID field of the data packet.

However the Examiner takes Official Notice that IPv6 packets may comprise numerous optional headers.

It would be obvious to one of ordinary skill in the art at the time the invention was made to modify the IPv6 packet of Huitema such that it would comprise a JXTA Group-ID field since the Examiner takes Official Notice that optional headers are available for use in an IPv6 packet.

### ***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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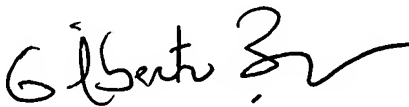
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laurel Lashley whose telephone number is 571-272-0693. The examiner can normally be reached on Monday - Thursday, alt Fridays btw 7:30 am & 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, Jr. can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laurel Lashley  
Examiner  
Art Unit 2132

 30 August 2007  
LL

  
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